BRUHAT BANGALORE MAHANAGARA PALIKE
BYATARAYANAPURA DIVISION

Name of the Work : Improvements to Roads,Drains,Footpath and Park in ward no.08,Bytarayanapura Division (Package includes 11 Works of Rs 1010 lakhs)

TOTAL ABSTRACT
8th PART BILL

TEJUS CONSULTANTS
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Bruhat Bengaluru Mahanagara Palike

BYATARAYANAPURA DIVISION

TOTAL ABSTRACT

Name Of work : - Improvements to Roads,drains,footpath and park in ward no.08,Bytarayanapura Division (Package includes 11 Works of Rs 1010 lakhs)

Job Code :- 008-17-000035, 008-17-000036, 008-17-000037, 008-17-000038, 008-17-000039, 008-17-000040, 008-17-000041, 008-17-000042, 008-17-000043, 008-17-000044, 008-17-000045, 25347

Name of Agency :- M/s Karthik Enterprises

Bill No :- 8th and Part Bill

Measurements recorded on

BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
1	**KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M 15 &M 20 MORTH**						
	Maruthinagar 2nd Stage			15.38			
	Present Qty			15.38			
	Previous Qty			58.22			
	Total			73.60			
	BOQ qty			73.60			
	TOTAL	Sqm		15.38	488.86	7519.00	
3	**Removing and Resetting of Footpath Slab (P.No.265, I.No.37.56 of PW, P&IWTD SR 2016-17)**						
	Maruthinagar 2nd Stage			599.94			
	Present Qty			599.94			
	Previous Qty			1631.31			
	Total			2231.25			
	BOQ qty			2231.91			
	TOTAL	Cum		599.94	138.94	83356.00	
2	**Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)**						
	Maruthinagar 2nd Stage			586.80			
	Present Qty			586.80			
	Previous Qty			6801.69			
	Total			7388.49			
	BOQ qty			10125.29			
	TOTAL	Sqm		586.80	84.48	49573.00	
4	**KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)**						
	Maruthinagar 2nd Stage			886.68			
	Present Qty			886.68			
	Previous Qty			7079.60			
	Total			7966.28			
	BOQ qty			16048.83			

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	TOTAL	Sqm		**886.68**	**202.30**	**179376.00**	
5	**KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KRS 4.1, 4.2. (P.No.12**						
	Maruthinagar 2nd Stage			**80.48**			
	Present Qty			80.48			
	Previous Qty			727.11			
	Total			**807.59**			
	BOQ qty			**842.36**			
	TOTAL	Cum		**80.48**	**5608.71**	**451386.00**	
6	**Providing laying plain/ reinforced cement concrete M20 Grade for Box Drain walls of thickness 10cm to 20cm including centering shuttering for work etc. complete as per approved drawing and design MORTH specification No. 1500, 1700, 2200. (P.No.265, I.No.37.59.2 of PW, P&IWTD SR 2016-17**						
	Maruthinagar 2nd Stage			**65.30**			
	Present Qty			65.30			
	Previous Qty			1197.35			
	Total			**1262.65**			
	BOQ qty			**1600.67**			
	TOTAL	Cum		**65.30**	**11568.66**	**755428.00**	
10	**KSRB - 4.9.2: Providing TMT steel Fe500 reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KRS 4.6.3**						
	Maruthinagar 2nd Stage			**2.93**			
	Present Qty			2.93			
	Previous Qty			61.69			
	Total			**64.62**			
	BOQ qty			**89.33**			
	TOTAL	**MT**		**2.93**	**62300.47**	**182540.00**	
20	**Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)**						
	Maruthinagar 2nd Stage			**161.01**			
	Present Qty			**161.01**			
	Previous Qty			2655.61			
	Total			**2816.62**			
	BOQ qty			**4131.99**			
	TOTAL	**Sqm**		**161.01**	**1780.52**	**286682.00**	

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25	**KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)**						
	Maruthinagar 2nd Stage			**722.14**			
	Present Qty			**722.14**			
	Previous Qty			**1679.83**			
	Total			**2401.96**			
	BOQ qty			**2389.63**			
	TOTAL	**Cum**		**722.14**	**162.28**	**117189.00**	
26	**KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406**						
	Maruthinagar 2nd Stage			**645.01**			
	Present Qty			**645.01**			
	Previous Qty			**1135.24**			
	Total			**1780.25**			
	BOQ qty			**1375.36**			
	TOTAL	Cum		**645.01**	**1854.01**	**1195862.00**	
27	**KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)**						
	Maruthinagar 2nd Stage			**2580.06**			
	Present Qty			**2580.06**			
	Previous Qty			**4472.05**			
	Total			**7052.11**			
	BOQ qty			**5510.44**			
	TOTAL	Kgs		**2580.06**	**28.9**	**74564.00**	
28	**KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)**						
	Maruthinagar 2nd Stage			**4279.68**			
	Present Qty			**4279.68**			
	Previous Qty			**30307.04**			
	Total			**34586.72**			
	BOQ qty			**51151.79**			
	TOTAL	Sqm		**4279.68**	**3.33**	**14251.00**	

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29	**KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)**						
	Maruthinagar 2nd Stage			**10149.04**			
	Present Qty			**10149.04**			
	Previous Qty			**50703.15**			
	Total			**60852.19**			
	BOQ qty			**79163.61**			
	TOTAL	Sqm		**10149.04**	**12.23**	**124123.00**	
30	**KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per**						
	Maruthinagar 2nd Stage			**164.47**			
	Present Qty			**164.47**			
	Previous Qty			**799.08**			
	Total			**963.54**			
	BOQ qty			**1234.01**			
	TOTAL	Cum		**164.47**	**6748.01**	**1109813.00**	
31	**KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per**						
	Maruthinagar 2nd Stage			**274.39**			
	Present Qty			**274.39**			
	Previous Qty			**1394.15**			
	Total			**1668.54**			
	BOQ qty			**2297.71**			
	TOTAL	Cum		**274.39**	**7623.89**	**2091915.00**	
32	**KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)**						
	Maruthinagar 2nd Stage			**64.32**			
	Present Qty			**64.32**			
	Previous Qty			**1150.48**			
	Total			**1214.79**			
	BOQ qty			**2694.58**			
	TOTAL	Sqm		**64.32**	**569.10**	**36602.00**	

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33	**Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per**						
	Maruthinagar 2nd Stage			46.28			
	Present Qty			46.28			
	Previous Qty			100.83			
	Total			147.11			
	BOQ qty			160.20			
	TOTAL	Cum		46.28	5776.55	267310.00	
34	**Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, I.No.22.7 of PW, P&IWTD SR 2016-17)**						
	Maruthinagar 2nd Stage			308.50			
	Present Qty			308.50			
	Previous Qty			625.86			
	Total			934.36			
	BOQ qty			1068.00			
	TOTAL	Sqm		308.50	100.04	30862.00	
35	**Providing groove cutting to concrete pavement for width of 5mm to 10mm and depth 80mm - 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade, coolant, etc., including cleaning of grove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all amterials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications (P.No.178, I.No.22.8.1 of**						
	Maruthinagar 2nd Stage			30.85			
	Present Qty			30.85			
	Previous Qty			0.00			
	Total			30.85			
	BOQ qty			76.00			
	TOTAL	Rmt		30.85	127.82	3943.00	
77	**Add cost of Waste Plastic @ 8% of Bitumen Weight**			3095.11	28.31	87623.00	
	GRAND TOTAL IN Rs.					7149917.00	

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